

WHAT IS CLAIMED IS:

1. A play back apparatus in which, according to a play back command from an operation section, the PCM audio data is generated from compression data in which the audio information  
5 is coded, and an audio is played back according to the PCM audio data,

said play back apparatus comprising:

a control section for conducting the control of each section of said apparatus according to each kind of commands  
10 from an operation section;

a compression decoder for decode processing the compression data, generating the PCM audio data, and successively outputting thereof;

a first storage section for successively renewing the temporarily stored data successively generated according to the  
15 PCM audio data and temporality storing thereof, and appropriately repeatedly reading out the temporarily stored data which is temporarily stored, and successively outputting thereof; and

20 a switching section for selecting either one of the PCM audio data successively outputted from said compression decoder or the temporarily stored data stored in said first storage section, and outputting thereof, wherein

when a quick traverse play back command or quick returning

play back command is given by said operation section, said control section controls said switching section and selectively outputs the temporarily stored data stored in said first storage section.

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2. The play back apparatus according to Claim 1, wherein the temporarily stored data includes the PCM audio data to play back the special audio in which the quick traverse play-back audio of the audio information, or the quick returning  
10 play-back audio is converted into an imitation sound.

3. The play back apparatus according to Claim 1, wherein the temporarily stored data includes the data obtained by extracting the PCM audio data outputted from said compression  
15 decoder at a predetermined interval.

4. The play back apparatus according to Claim 1, wherein said first storage section includes a predetermined number of storage addresses, and successively reads in the  
20 temporarily stored data successively generated according to the PCM audio data successively outputted from said compression decoder, and successively stores in the address specified by said control section.

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5. The play back apparatus according to Claim 1, wherein  
when the quick traverse play back command is given by said  
operation section, the temporarily stored data stored in said  
first storage section is repeatedly read out in the stored order  
5 and successively outputted as the output data.

6. The play back apparatus according to Claim 1, wherein  
when the quick returning play back command is given by  
said operation section, the storing temporarily stored data is  
10 repeatedly read out in the order reversed to the stored order,  
and successively outputted as the output data.

7. The play back apparatus according to Claim 1, wherein  
said control section controls in such a manner that,  
15 before the each kind of command is given from said operation  
section, said control section judges whether the temporarily  
stored data is already stored in said first storage section,  
and

when it is judged that the temporarily stored data is not  
20 yet stored in said first storage section, said control section  
makes the decode processing of the compression data by said  
compression decoder start, and generates the PCM audio data,  
and makes the PCM audio data successively output from said  
compression decoder, and makes the temporarily stored data

generated according to the PCM audio data, temporarily stored in said first storage section.

8. The play back apparatus according to Claim 1, further comprising:

a second storage section for storing the default data including the PCM audio data having a predetermined data amount, wherein

said control section controls in such a manner that, before each kind of command is given from said operation section, said control section judges whether the temporarily stored data is already stored in said first storage section, and

when it is judged that the temporarily stored data is not yet stored in said first storage section, the temporarily stored data according to the default data stored in said second storage section is read in said first storage section, and temporarily stored.

9. The play back apparatus according to Claim 8, wherein the default data includes the PCM audio data to play back the special audio in which the quick traverse play back audio, or the quick returning play back audio of the audio information is converted into an imitation sound.

10. A play back apparatus in which, according to a play back command from an operation section, the PCM audio data is generated from compression data in which the audio information is coded, and an audio is played back according to the PCM audio data,  
5 data,

said play back apparatus comprising:

a control section for conducting the control of each section of said apparatus according to each kind of commands from an operation section;

10 a compression decoder for decode processing the compression data, generating the PCM audio data, and successively outputting thereof;

a first storage means for successively renewing the temporarily stored data successively generated according to the  
15 PCM audio data and temporality storing thereof, and appropriately repeatedly reading out the temporarily stored data which is temporarily stored, and successively outputting thereof; and

a switching means for selecting either one of the PCM  
20 audio data successively outputted from said compression decoder or the temporarily stored data stored in said first storage means, and outputting thereof, wherein

when a quick traverse play back command or quick returning play back command is given by said operation section, said

control section controls said switching means and selectively outputs the temporarily stored data stored in said first storage means.

5 11. The play back apparatus according to Claim 10, wherein  
the temporarily stored data includes the PCM audio data  
to play back the special audio in which the quick traverse  
play-back audio of the audio information, or the quick returning  
play-back audio is converted into an imitation sound.

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12. The play back apparatus according to Claim 10, wherein  
the temporarily stored data includes the data obtained  
by extracting the PCM audio data outputted from said compression  
decoder at a predetermined interval.

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13. The play back apparatus according to Claim 10, wherein  
said first storage means includes a predetermined number  
of storage addresses, and successively reads in the temporarily  
stored data successively generated according to the PCM audio  
20 data successively outputted from said compression decoder, and  
successively stores in the address specified by said control  
section.

14. The play back apparatus according to Claim 10, wherein  
when the quick traverse play back command is given by said  
operation section, the temporarily stored data stored in said  
first storage means is repeatedly read out in the stored order  
5 and successively outputted as the output data.

15. The play back apparatus according to Claim 10, wherein  
when the quick returning play back command is given by  
said operation section, the storing temporarily stored data is  
10 repeatedly read out in the order reversed to the stored order,  
and successively outputted as the output data.

16. The play back apparatus according to Claim 10, wherein  
said control section controls in such a manner that,  
15 before the each kind of command is given from said operation  
section, said control section judges whether the temporarily  
stored data is already stored in said first storage means, and  
when it is judged that the temporarily stored data is not  
yet stored in said first storage means, said control section  
20 makes the decode processing of the compression data by said  
compression decoder start, and generates the PCM audio data,  
and makes the PCM audio data successively output from said  
compression decoder, and makes the temporarily stored data  
generated according to the PCM audio data, temporarily stored

in said first storage means.

17. The play back apparatus according to Claim 10, further comprising:

5 a second storage means for storing the default data including the PCM audio data having a predetermined data amount, wherein

said control section controls in such a manner that, before each kind of command is given from said operation section,  
10 said control section judges whether the temporarily stored data is already stored in said first storage means, and

when it is judged that the temporarily stored data is not yet stored in said first storage means, the temporarily stored data according to the default data stored in said second storage  
15 means is read in said first storage means, and temporarily stored.

18. The play back apparatus according to Claim 17, wherein

the default data includes the PCM audio data to play back  
20 the special audio in which the quick traverse play back audio, or the quick returning play back audio of the audio information is converted into an imitation sound.